LIMA LOCOMOTIVE WORKS
INCORPORATED

LIMA, OHIO, U. S. A.

GEARED LOCOMOTIVE

Class 50-2-SPECIAL Dept. DRAWING ROOM

CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE
402	3240	8-23 23

FORM LED 60

402
50-2
3240
8-23-23

402
3240
8-23-23

ADDITIONS AND CHANGES

ADDITIONS

DATE	Page	ITEMS	Check
8-24-23	27	43, 51, 52, 53.	
9-1-'23	22	37	
" " "	8	56-58	
9-5-'23	18	41-42	
9-6-'23	3	2-51-52-60	
" " "	~~XX~~	~~XX~~	
9-13-23	1	1-2-11-13 To 16-20-25-26	
9-18-'23	23	1 To 7-9 To 17-19-20-22-24-25-28 To 31.	
" " "	"	33-34-35.	
" " "	21	27 To 34.	
9-19-'23	16	57-58	
9-21-23	12	39-41-46 To 51-55-56-34-35	
" " "	12	25 To 29-31-33	
" " "	10	1-3.	
9-27-'23	18	48	
" 28 "	12	38	

ADDITIONS

DATE	Page	ITEMS	Check

CHANGES

DATE	Page	ITEMS	Check
8-24-23	21	15, 20.	
"	27	15 TO 21	
"	26	45	
8-29-'23	11	47	
" " "	12	13-15-19	
9-1-'23	20	55	
9-5-'23	10	50	
9-6-'23	3	47-53-59	
9-18-'23	1	2.	
9-21-'23	18	2-10-18-19-20	
" " "	24	52	
" " "	25	1-4	
9-24-'23	2	22-23	
9-25-'23	12	39	
9-28-'23	23	6	
12-3-'23	18	18	

13868

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
A	1	ASH OIL PAN	1	104 A 5002	New line for future because of extent for ~~dump~~ shaft. Dat. 9-16-25	—	—	—	—	
A	2	" Pan Material Bill	1 SET	10 M.O. 5035-A						
	3	" " Hopper								
	4	" " Slide								
	5	" " Door Frame								
	6	" " Slide Frame								
	7	" " Door Links								
	8	" " Damper Rigging								
	9	" " " Bell Crank								
	10	" " " " " Fulcrum								
A	11	" " " Hinge	6	4½"×1¾"×6"	HALF BUTT	—	—	—	—	—
	12	" " " " Lug	—							
A	13	" " " LIFT ~~Bar~~ SUPPORT	2	104 A 5002		TO SUIT ERECT. SHOP				
A	14	" " " Lift—~~Front~~ RIGHT	1	"		10 A 5027				
A	15	" " " " —~~Rear~~ LEFT	1	"		10 A 5027				
A	16	" " " Lug	2	"		10 A 5026				
	17	" " " "								
	18	" " " Rod Jaw								
	19	" " " " "								
A	20	" " Netting ~~Frames~~	2	104 A 5002	2½"×2½" MESH. #10-WIRE.		—	—	—	—
	21	" " Slide Rigging								
	22	" " " Rod								
	23	" " " Jaw								
	24	" " Shaft Bearing								
A	25	" " Cleaning Door Hinge	4	4½"×1¾"×6"	HALF BUTT.	—	—	—	—	—
A	26	" " ~~Bell Crank Bracket~~ PIN	2	104 A 5002		87 B 7	—	—	—	—
	27									
	28									
	29									
	30	GROUP 11—AXLES								
A	31	AXLE	4	112 B 5015		112 B 5015	—	—	—	—
	32	"	—							
	33	GROUP 12—BELL								
M	34	BELL	1	122 A 5016			—		12-1	
M	35	" Frame	1	123 A 5000			12-4			
M	36	" " Base	1	122 A 5013			12-152			
M	37	" Yoke	1	123 A 5000			12-5			
M	38	" " Nut	1	122 A 5011			12-6			
M	39	" " Pin	1	123 A 5000	BAR STOCK					
M	40	" Crank	1	122 A 5010						12-7
M	41	" Tongue	1	122 A 5017						12-2
M	42	" " Fulcrum	1	122 A 5018			12-3			
	43	" Ringer Bracket	—							
M	44	" Rope ~~Details~~ SCREW EYE	3	TO SUIT ERECT. SHOP PURCHASED			—			
M	45	" " Sheave	1	122 A 5019			12-21			
M	46	" " " Chair	1	122 A 5022			12-20			
M	47	" " " Frame	1	122 A 5020			12-18			
M	48	" " Thimble	1	122 A 5021			12-19			
	49	" " " Washer	—							
	50	" Ringer	—							
	51									
	52	GROUP 13—BOILER								
A	53	Boiler Plan	1	138 C 5006						
	54	" Sections	—							
A	55	" Material Bill	1 SET	13 M.O. 5038-A						
A	56	" Bracing List	1 "	138 C 5006						
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
	1	Boiler Brace Rod Ends	22	11754 SET 12		117F201				
	2	" " " "	4	310D165		310S104				
	3	" " " "	2	11754 SET 2		117F202				
	4	" " " "								
	5	" " " "								
	6	" " " Lugs	4	310D265		310S29	—	—	—	—
	7	" " " "								
	8	" " " "								
	9	" " " "								
	10	" " " Jaws	22	310D148		310-S-64				
	11	" " " "	4	310D265		310-S-186				
	12	" " " "	12	310D164		310-S-105				
	13	" " " "								
	14	" " " "								
	15	" " " "								
	16	" Sling Stay								
	17	" " "								
	18	" Throat Brace	6	11766		117F215	—	—	—	—
	19	" " "								
	20	" Crown Bars								
	21	" " Roof Irons								
	22	" Stay Bolt	391 ~~282~~ 263	4535 LINE 1		4535 LINE 1				
	23	" " "	~~365~~	" " 2	R. Hollins	" " 2				
	24	" Radial Stay	120	11721 LINE 2		11721 LINE 2				
	25	" " "	68	11745		11745				
	26	" " "	16	TATES STYLE D	PURCHASED					
	27	" "Cross Stay" SLEEVES	16	" " H						
	28	" "Tee Bar" CAPS	16	" " D						
	29	" TEE BAR	2	22" LONG	6"×1"×5¼"×¼					
	30	" " "	2	19½" "						
	31	" " "	2	10" "						
	32	" " "	2	11½" "						
	33	" " "								
	34	" Mud Ring	1	143A(B)5030	future	116F45		14-161		
	35	" Tube Sheet Ring	1	11678		—				
	36	" " " Studs	6	"						
	37	" Smoke Box Ring	1	13865006		14A5000				
	38	" " " "								
	39	" Tube (small)	82	2" O.D. # 12-B.W.G. 9'-0" LONG.						
	40	" Flue (large)	10	5 3/8" O.D. # 9-B.W.G. 9'-0 3/4"						
	41	" Combustion Tubes	—							
	42	" Tube Setting	1 SET	11632 STYLE 4						
	43	" Flue "	1 "	310D320	FOR LENGTH SEE BOILER					
	44	" Test Plate	1	420-D-449						
	45									
	46	**GROUP 15—BOLTS AND NUTS**								
	47									
	48	**GROUP 18—BRACKETS**								
	49	Air Gauge Bracket	1	182B5073		—		18-27		
	50	Steam Gauge Bracket	—			—				
	51	Bottom Bracket	1	184A5013				18-3		
	52	" " Caps	4	182A5029		—		18-32		
	53	" " Bearing—Top	4	182C5036						
	54	" " " —Bottom	4	182B5041				18-29		
	55	" " " Wedge	4	182A5015				18-30		
	56	" " Wedge Screw	4	182A5022				18-31		
	57	" " " " Nut	4	"	BAR STOCK	182A5022				
	58	" " " " Cap	4	182B5075		182B5075				
	59	Steam Bracket	1	187A5005				18-363		
	60	" " —Back	—							
	61	" " Brace	1	182A5079		182A5079				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE EQUIPMENT								
O	1	BRAKE CYLINDER	1	13543 LINE 12		—	20-13	—	—	—
O	2	" " SUPPORTS	1	202A 5203		202A 5203				
O	3	" " Head	1	202B 5203		202B 5203				
	4	" " "	2	202A5097			20-11			
O	5	" " Stuff. Box Gland	2	202A5091			20-12			
	6	" " " " "	—							
O	7	" Piston	2	202A5053			20-14			
	8	" "	—							
O	9	" " Rings, Mat'l For	4	653C 5002	Pot Pattern		65-15			
O	10	" " " " "	2	3176 LINE 3	" "		65-106			
	11	" " " " "	—		" "					
	12	" " " " "	—		" "					
O	13	" " Rod—Front	1	13507 SET 3	46 3/8"	135F7				
O	14	" " " —Rear	1	"	45 3/8"	135F77				
O	15	" " "	2	202B5169		202B5169				
O	16	" " " Jaw	2	"		"				
O	17	" Hollow Piston Rod	2	20" x 1 9/16 DIA	TURN FROM 1 1/4" PIPE	—				
	18	" " " "								
	19	" Strut								
	20	" "								
O	21	" EQUALIZING Reservoir Blocks & SUPPORTS	2	TO SUIT ERECT. SHOP	BLOCKS MADE OF WOOD	TO SUIT ERECT. SHOP				
O	22	" " Support	2	202B5025				20-111		
	23	" " "	—							
	24	" " "	—							
O	25	" " " Strap	2	202B5025		134-F-1210				
O	26	" Pump Bracket	1	202B5020 A				20-613		
	27	" " "	—							
	28	" Cyl. Lever Fulcrum	—							
O	29	" Equipment	1 SET	20 M.D. 5013-C						
O	30	" Valve	1	203A5010	#5		—			
O	31	" " Base	1	202A5138			20-38			
O	32	" " Cap	1	202A5137			20-39			
O	33	" " Slide Valve	1	202A5133			20-40			
O	34	" " Stem	1	202A5136	BAR STOCK					
O	35	" " Handle	1	202A5139						20-44
O	36	" " " Latch	1	202A5134	BAR STOCK					
O	37	" " Stuffing Box	1	202A5132	STICK BRASS					
O	38	" " " " Nut	1	"	" "					
O	39	" " " " Follower	1	"	" "					
O	40	" " Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	41	" " " Brace	—							
O	42	" Distributing Valve Bracket	2	B-13419 LINE 3		B-13419 LINE 3	—	—	—	—
O	43	" Relief Valve	3	202A5140					20-71	
O	44	" " " —Top	3	"	STICK BRASS		—	—	—	—
O	45	" " " —Base	3	"					20-73	
	46	" —Frame Body								
O	47	" Lever—Frame	2	488A5033		134F960				
O	48	" " "	1	"		134F506				
O	49	" " "	1	"		134F42				
O	50	" " "	4	"		5/8" x 2 1/2" x 12 1/2"				
O	51	" " "	1	"		20K5065				
O	52	" " "	1	"		20L5065				
O	53	" " Fulcrum—Frame	2	488A5033		1/2" x 3 1/2" x 3 1/2" LONG	—	—	—	—
	54	" " " "	—							
	55	" " " "	—							
O	56	" " Guides "	1	488A5033		20P5047				
O	57	" " " "	1	"		20N5047				
O	58	" " " "	2	"		20L5042				
O	59	" " " "	1	"		20J5092				
O	60	" " " "	1	"		20K5042				
	61	" " " "				20S5047				

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE (Cont.)								
✓	1	Brake Cylinder Bracket—Frame	1	488 A 5033	12"-30# [-55¼" LONG	—	—	—	—	—
✓	2	" " " "	1	"	¾"×12"×55¼" PLATE	—				
✓	3	" Rods "	2	"		134 F 266	20 Y 5061			
✓	4	" " "	1	"		134 F 58	20 V 5094			
✓	5	" " "	1	"	LENGTH TO SUIT ERECT SHOP	134 F 318	20 W 5094			
	6	" " "			" " " " "					
	7	" " "								
	8	" " "								
	9	"								
✓	10	" Beam— Truck	4	A-9810 LINE 1 ✓	202 A 5812	—	—	—	—	—
✓	11	" " Fulcrum "	4	202 A 5163 ✓		—				
✓	12	" " Safety Chain "	8	—		L 20 [illegible] 5059		20-87 ✓		
	13	" " Loop "				H FUTURE LUKE 20 [illegible] 5027 9-27-26				
✓	14	" Hanger "	16	937 C 5011						
✓	15	" " Lug "	8	202 A 5072						
✓	16	" Heads "	8	203 A 5009				20-632		
✓	17	" Shoes "	8	202 A 5104	(5) PAT. 20-8 PURCHASED			20-22		
✓	18	" Lever "	2	9809 SET 6		98 F 71				
✓	19	" " "	2	"		98 F 107				
✓	20	" " "	2	"		98 F 108				
✓	21	" ROD PINS "	4	202 C 5016		202 C 5016				
✓	22	" " "	14	202 M 5016		202 M 5016				
	23	" " "	—							
✓	24	" Rod "	2	202 F 5037		202 F 5037				
✓	25	" " "	2	937 C 5011		20 A 5062				
✓	26	" " "	2	"		20 A 5061				
	27	" " "	—							
✓	28	Truck Bolster Lever Fulcrum	2	202 A 5054		—	—	20-625	—	—
	29	" " Stop Lug	—							
	30	**GROUP 21—BUMPERS**								
✓	31	End Timber Arrangement—Front	1	213 D 5023	WOOD					
✓	32	" " " —Rear	1	213 E 5023						
✓	33	" " Channels—Front	1	213 D 5023	15"-33# CHANNEL					
✓	34	" " " —Rear	1	213 E 5023	102" LONG.					
✓	35	" " Drawhead Blocks	2	4"×11"×20"	WOOD	—	—	—	—	—
✓	36	Push Pole Pocket	4	212 A 5002		—	21-7	—	—	—
	37									
	38									
	39	**GROUP 22—CAB**								
✓	40	Cab	1	223 A 5021	WOOD	—	—	—	—	—
	41	" Material Bill	—							
	42									
	43									
	44	**GROUP 23—CAB DETAILS**								
✓	45	Cab Arm Rest	2	1116 5 LINE 5	232 E 5032	—	—	—	—	—
	46	" Joint Plate	—							
	47	" Strap	—							
✓	48	" Saddle Angle	1	—		111 F 27	—	—	—	—
	49	" " Plate	—							
	50	" Sash Fixture	—							
✓	51	" Storm Window	1	232 D 5012		—	—	—	—	—
	52	" " "	—							
✓	53	" " " Adjusting Bar	1	232 A 5010		232 A 5010	—	—	—	—
	54	" " " " Plate								
	55	" Awning								
	56	" Curtain								
	57	" " Rod								
	58	" Door Fixture								
✓	59	" " " Clamp	2	232 A 5019		—				23-3
✓	60	" " " " Screw	2	232 A 5018		—				23-2
✓	61	" " " " Slide Bar	2	232 A 5023		¼" × ¾" × 28"				—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 23—CAB DETAILS (Cont.)								
	1	Cab Door Fixture Rod	X2	232A5020		232A5020	—	—	—	—
	2	" Ventilator	—							
	3	" " Fixture	—							
	4	" " Handle	1	11145		111F30	—	—	—	—
	5	" " " Hinge	1	"		111F31	—	—	—	—
	6	" " " Latch	—							
	7	" " Rod	—							
	8	" Seat—Right	1	232A134	Wood	—	Z	Z	Z	Z
	9	" " —Left	1	"		—				
	10	" " ~~Back Support~~ Post Hinge	2	"		23A147				
	11	" " Cushion	~~2~~							
	12	" " Post	2	232A134		23A148	—	—	—	—
	13	" " Hinge	4	6" Strap Hinge	Purchased	—	—	—	—	—
	14	" " Rod	—							
	15	" Tool Box	1	A-11154	Wood	—	—	—	—	—
	16	" Door Locks	2	Yale Night Rim Latch	Purchased	—	—	—	—	—
	17									
	18									
	19									
	20	**GROUP 26—COCK AND VALVES**								
	21	Air Sander Valve	2	¼" Globe - Crane #1807 ~~#4~~		—	—	—	—	—
	22									
	23	Angle Valve								
	24	" " Cap								
	25	" " Stem								
	26	" " Gland								
	27	" " Nut								
	28									
	29	Ash Pan Cock	—							
	30									
	31	Bell Ringer Valve	—							
	32									
	33	Blower Valve	1	¾" Crane #1813		—	—	—	—	—
	34	" " Cap								
	35	" " Stem								
	36	" " Gland								
	37	" " Nut								
	38	Blow Off Cock	1	1½" Crane		—	—	—	—	—
	39	" " " Cap								
	40	" " " Plug								
	41	" " " Nut								
	42	" " " Washer								
	43	" " Extension								
	44	Blow-off Valve								
	45	Injector Starting Valve	2	1½" Crane #1811 & 1¾" C.P. Union		—	—	—	—	—
	46	" " " Cap								
	47	" " " Stem								
	48	" " " Gland								
	49	" " " Nut								
	50	Brake Stop Valve—Steam	1	¾" Crane #1811		—	Z	Z	Z	Z
	51	" " " —Air	1	1" " #1811 ~~#4~~		—				
	52	" " " —Inter.	1	1" Globe #1807 Crane		—				
	53									
	54	Cinder Swipe Valve	—							
	55									
	56	Cylinder Cock	6	½" Union Bibb		—	—	—	—	—
	57	" " Nut								
	58	" " Shank								
	59	" " Valve								
	60	" " Cap								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
MV	1	Drip Valve Brake Exhaust Drain	1	1/2" GLOBE	CRANE #1807					
MV	2	" " Check Pipe "	2	1/2" "						
MV	3	" " Exhaust " "	1	1/2" "						
MV	4	" " Steam Chest "	1	1/2" "						
MV	5	" " Water Gauge "	1	1/4" "						
	6									
	7	Drip Cock—Brake Exhaust Drain	—							
MV	8	" " — " " " —Air	1	1/4" AIR COCK		—	—	—	—	—
	9	" " —Check Pipe Drain	—							
MV	10	" " —Fuel Sprinkler Drain	1	1/4" AIR COCK		—	—	—	—	—
MV	11	" " —Siphon Drain	1	3/8" " "		—	—	—	—	—
	12	" " —Oil Heater Drain								
	13	Generator Valve								
	14	" " Cap								
	15	" " Stem								
	16	" " Gland								
	17	" " Nut	—							
	18									
	19	Feed Cock	—							
	20	Heater Valve	—							
	21									
	22	Lubricator Valve	—							
MV	23	" " Extension	1	A-11421		—	—	—	26-70	—
	24	Oil Burner Valves								
	25	" Heater "								
	26	" Tank Blow-Back Valve								
	27	" " Heater Valve								
	28	Oil Cock								
	29	" " Cap								
	30	" " Plug								
	31	" " Spring								
	32	" " Washer								
	33									
	34	Plug Cock—Injector Check								
	35	" " Cap								
	36	" " Plug								
	37	" " Nut								
	38	" " Washer								
	39									
	40	Port Cock	—							
	41									
MV	42	Siphon Valve	1	1 1/2" CRANE #1811		—	—	—	—	—
	43									
MV	44	Sprinkler Valve	1	1" GLOBE - CRANE #1807		—	—	—	—	—
	45	" " Cap								
	46	" " Stem								
	47	" " Gland								
	48	" " Nut								
	49	X X X								
	50									
MV	51	Steam Gauge Cock	1	1/4" CYL. COCK - LEVER HANDLE & 3/8" C.P. UNION		—	—	—	—	—
	52									
MV	53	Steam Gauge Cock Extension	1	11464 STYLE I STICK BRASS		—	—	—	—	—
	54									
	55	Tire Sprinkler Valve	—							
	56									
	57	Through Valve								
	58	" " Cap								
	59	" " Stem								
	60	" " Gland								
	61	" " Nut								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)								
M	1	Gauge Cock	3	3/4" HATHAN TYPE 272A1001 EXCEPT 3/4" P.THD.						
	2	" " Valve								
	3	" " Cap								
	4	" " Stem								
	5	" " Gland								
	6	" " Nut								
	7									
	8									
	9	Gauge Cock Extension	—							
M	10	" " Dripper	1	272A5006		—	27-38	—	—	—
	11									
	12									
M	13	WATER GAUGE	1	#9 REFLEX		—	—	—	—	—
M	14	" " Upper Fitting	1	3/4 HATHAN		—	—	—	—	—
	15	" " " " Cap								
	16	" " " " Valve								
	17	" " " " Stem			THD. 3/4 P. SIZE	401				
	18	" " " " Gland			LENGTH TO SUIT	2U MO 5023				
	19	" " " " Nut			ERECT. SHOP					
	20	" " " " Washer								
M	21	" " Lower Fitting	1	3/4 NATHAN		—	—	—	—	—
	22	" " " " Cap								
	23	" " " " Valve								
	24	" " " " Stem								
	25	" " " " Gland								
	26	" " " " Nut								
	27	" " " " Washer								
M	28	" " Cock Elbow	1	272A5003		—	—	—	27-9	—
M	29	" " Lamp Bracket	1	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	30	" " Marker "								
	31	" " " " Clamp								
	32	" " "								
	33	Water Gauge Extension								
	34	Water Gauge Cock								
	35									
	36	**GROUP 28—COCK RIGGING**								
	37									
M	38	Blow-off Cock Rigging	1 SET	A-11405			—			
M	39	" " " Handle	1	73ZA5027			73-6			
M	40	" " " Rod	1	3/8" PIPE TO SUIT ERECT. SHOP			—			
	41	" " " "	—							
M	42	" " " " Jaw	1	A-11405		114F4	—	—	—	—
	43	" " " Lever	—							
	44	" " " " Fulcrum	—							
	45									
M	46	Cylinder Cock Rigging	1 SET	7329 LINE 2		—	—			
M	47	" " Eye Bolt	3	282A5005		282A5005	—			
M	48	" " ~~Hand Lever~~ HANDLE	1	282A5006		—	28-2			
	49	" " " " Fulcrum	—							
M	50	" " Rod	1	70 5/8" × 3/4" DIA.	C.R. STEEL		—	—	—	—
M	51	" " " Lever	3	282A5004			—	—	—	28-1
	52	" " " Jaws	—							
M	53	" " Valve Lever	3	7329 LINE 2	C.R. STEEL	FIN. SIZES 3/16 × 5/8 × 1 64/4"	—	—	—	—
	54	" " " " Connection								
	55	**GROUP 30—CROSSHEAD**								
M	56	Crosshead	3	302A5020			—	30-5		
M	57	" Shoe	6	302A5021			30-6			
M	58	" " Bolts	6	302A5020						
M	59	" Pin	3	302A5049	MACH. STEEL					
M	60	" Key	3	302A5036	CHROME VANADIUM					
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
	1	CYLINDER	2	314B5004			31-2	—		
	2	"	1	"			31-3	—		
	3	" Frame	2	15936			—	31-56		
	4	" "	1	"			—	31-56		
	5	GROUP 32—CYLINDER DETAILS								
	6	Cylinder Head	3	322A5033		—	32-37	—	—	—
	7	" " Casing	3	322A5034	PRESSED STEEL	—	—	—	—	—
	8									
	9									
	10	Steam Chest Cover	3	322A5016		—	32-33	—	—	—
	11	" " Casing	3	322A5039	PRESSED STEEL	—	—	—	—	—
	12	Valve Chamber Head								
	13	" " "								
	14	" " Cover								
	15	" " Bushing								
	16									
	17									
	18	GROUP 34—CYL BY-PASS & RELIEF VAL								
	19	Steam Chest Relief Valve	3	7432 LINE 1	STICK BRASS				—	
	20	" " " " Base	3	"					34-3	
	21	" " " " Cap	3	"					34-2	
	22									
	23									
	24									
	25									
	26	GROUP 35—DIE WORK	—							
	27									
	28									
	29									
	30									
	31									
	32									
	33	GROUP 36—DOME								
	34	Dome	1	138C5006						
	35	" Flange	1	362A5000	PRESSED STEEL					
	36	" " Radius	—	29½"						
	37	" Cap	1	362D5007						
	38	" Ring	1	362A5009	PRESSED STEEL					
	39	" Casing—~~Base~~	1	12040 LINE 5						
	40	" " —Shell	—							
	41	" " —Top	—							
	42	" Flow Bowl	1	12040 LINE 5	SHEET STEEL	—	—	—	—	—
	43	" " " Bracket	3	"		120F2	—	—	—	—
	44									
	45									
	46									
	47	GROUP 37—DRAWGEAR F & B								
	48	Coupler F.	1	373A5003						
	49	" B.	1	"						
	50	" Knuckles	2	372K5000	R 2 3 1 3/4 10 Knuckle 1 1-3/4 37-1 1-1			37-2		
	51	" "	1	372B5000				37-2		
	52	" Lock	2	372A5006				37-11		
	53	" " Lifter	2	372A5007				37-4		
	54	" Link	—					37-12		
	55	" Lever	—					37-13		
	56	Uncoupling Shaft	2	213B5023		37R5009	—	—	—	—
	57	" "	—							
	58	" " Bracket	6	213B5023		104F98	—	—	—	—
	59	" " "	—							
	60	Buffer	—							
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 37—DRAWGEAR (Cont.)								
M	1	Drawhead	2	373A 5017		—	37-1			
M	2	Draw Gear Brace	1	~~372A 5040~~	372-J-K-5076 (1)	110F365				
M	3	" " "	1	"	(1)	110F366				
M	4	" " " Foot	2	"		—		37-73		
M	5	" " " Foot	2	"		—		37-74		
	6	" " Back								
	7	" " Shims								
	8	" " Pin								
	9	" " Frame—Front								
	10	" " " "								
	11	" " " —Rear								
	12	" " " "								
	13	" " Tie Plate								
	14	" " Friction Plate								
	15	" " Sliding Bar								
	16	" " " "								
	17	" " Connecting Rod								
	18	" " " " Pin								
	19	" " Yoke								
	20	" " " Block								
	21	" " " Followers								
	22	" " " "								
	23	" " " Binder Plate								
	24	" " Carrier Link								
	25	" " " Pin								
	26	" " " Plate								
	27	" Bar Guide								
	28	" " Pin								
	29	" " Carry Iron								
	30	" " " " Bolt Liner								
M	31	" Pin—Front	1			104F35	—	—	—	—
M	32	" " —Back	1			104F35	—	—	—	—
	33	Shackle Bar								
	34	" " Key								
	35	" " Gibs								
	36	" " Brace								
	37	" " " Pad								
	38	" " " Pin								
	39	" " Pin								
	40	Safety Link								
	41	" " Pins								
	42									
	43	**GROUP 39—ECCENTRICS**								
M	44	ECCENTRIC—No. 1 Cylinder	1	392A 5073			39-45			
M	45	" No. 3 Cylinder	1	"			39-45			
M	46	" No. 2 Cylinder—Top	1	392A 5072			39-42			
M	47	" No. 2 Cylinder—Bot.	1	"			39-43			
M	48	" Key	2	"	CHROME VANADIUM MACH. STEEL		—			
M	49	" Stud	2	"			—			
M	50	ECCENTRIC STRAP Top	6	392B 5005			39-36			
M	51	" " Bottom	6	"			39-37			
M	52	" " Bolts	12	"			—			
M	53	" " Liner	12	"			—			
	54	" " Filler								
	55									
M	56	ECCENTRIC ROD	3	8411 SET 2		84F30				
M	57	" "	3	"		84F34				
M	58	" " Pin	6	393D 5000		—				
	59	" " "								
M	60	" " Bolts	12	8509 SET 9		—	—	—	—	—
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS								
✓	1	ERECTING PLAN—Elevation	1	428B5048						
	2	GROUP 43—ERECTING CARDS								
✓	3	ERECTING PLAN—Sections	1	433B5053						
	4									
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
✓	6	EXHAUST Drop Pipe	1	442C5052			44-418-A			
✓	7	" " Pipe Flange	1	442A5056			44-69			
✓	8	" Nozzle	1	442A5062			44-68			
✓	9	" "	1	442B5062			44-113			
✓	10	" "	1	442C5062			44-114			
	11	" " Tip	—							
✓	12	" Extension	1	442B5051		—	44-543	—	—	—
	13	" Gland	—							
✓	14	" Reducer	1	442A5017			44-531			
✓	15	" " Gland	1	442A5018			44-533			
✓	16	" Pipe Elbow	1	442A5016			44-532			
✓	17	" " Joint Ring	1	792K5029			79-22			
✓	18	" "	1	442C5015	6" W.I. Pipe		—			
✓	19	" " Nipple	1	"			—			
	20	GROUP 45—FIREDOOR AND FIREBRICK								
	21	FIRE BRICK								
	22	" " Arch Tube								
	23	" " " " Setting								
	24									
✓	25	FIRE DOOR	1	452A5004			45-10			
✓	26	" " Frame	1	452A5001			45-9			
✓	27	" " Liner	1	452A5002			45-11			
✓	28	" " Latch	1	452A5005		127F4				
✓	29	" " " Handle	1	"		127F14				
✓	30	" " " Guide	1	452A5003		452A5003				
✓	31	" " ~~Shield~~ HINGE PIN	1	—		45A7				
	32	" " Damper								
	33	" " " Bearing								
	34	" " " "								
	35	" " " Handle								
	36	" " " Thumb Nuts								
	37	" " Peep Hole Cover								
	38									
	39									
	40									
	41	GROUP 48—FRAME AND DETAILS								
✓	42	FRAME	1	488A5033			—			
✓	43	" Boiler Saddle	1	482A5094	22 1/8" TO		48-48			
✓	44	" " "	1	"	23 1/2" RAD.		48-49			
	45	" " Pad Clamp	—							
✓	46	" REINFORCING PLATE	2	488A5033	1"×6 1/2"×11'-4" PLATE					
✓	47	" " " "	1	"	1"×6 1/2"×10'-0" "					
✓	48	" " " "	1	"	1"×6 1/2"×9'-2" "					
	49	" Bolster Fill Blocks	—							
✓	50	" Centre Plate	2	482E5111		—				
✓	51	" Side Bearing—Right	2	488A5033		1 1/2"×5"×14"			48-656	
✓	52	" " " —Left	2	"		1 1/2"×7 1/2"×14"				
✓	53	" Spreader	3	"	SOFT STEEL	1"×5"×55 1/4"				
	54	" Truss Pad								
	55	" " "								
	56	" " Head								
	57	" " Post Head								
	58	" " " Socket								
	59	" " Rod Washers								
	60	Main Truss Rod—Right								
	61	" " " —Left								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 48—FRAME & DETAILS (Cont.)								
	1	Truss Rod Ends								
	2	" " "								
	3	" " "								
	4	" " "								
	5	" " Columns								
	6	" " "								
	7	" Post Guides								
	8	" " "								
∅	9	Frame Brace To Bolster	2	488A5038	5/8"×24"×60" Plate					
∅	10	" " " "	1	"	5/8"×10 1/2"×60" "					
∅	11	" " " "	1	"	5/8"×10 1/2"×61" "					
∅	12	" "Liner"	6	"	3/4"×6"×7" "					
∅	13	" "	7	"	3/4"×5 1/4"×7" "					
∅	14	" "	1	"	3/4"×5 1/4"×9 1/2" "					
∅	15	Frame Pit Irons	2	"		48H5013				
∅	16	" " "	1	"		48A5022				
∅	17	" Angles	6	"		1/2"×3"×3"-5" Long.				
∅	18	" " "	1	"		1/2"×3"×3"-20 1/4" "				
	19	" End Casting	—							
∅	20	" " Timber Brace	4	11090 Set 12		—	—	48-57	—	—
∅	21	" Angle	8	488A5033		5/8"×6"×6"-12 1/2" Long.				
∅	22	" "	8	"		5/8"×6"×6"-7 1/2" "				
∅	23	" "	8	"		5/8"×3 1/2"×6"-7 1/2" "				
∅	24	" "	7	"		1/2"×3"×3"-19 1/4" "				
∅	25	" "	2	"		1/2"×3"×3"-12" "				
∅	26	" "	2	"		1/2"×3"×3"-9 1/2" "				
∅	27	" Smoke Box Brace Pad	2	13007 Set 1		—	48-15	—	—	—
∅	28	EXPANSION PLATE	1	482A5162	Plate	—	—	—	—	—
∅	29	" " Angle	1	"		482A5162		—		
∅	30	FURNACE BEARER—Front	1	482A5160		—		48-695		
∅	31	" " —Rear	1	482A5161		—		48-696		
	32	" " Plate	—							
∅	33	" " Fill Blocks	2	482A5158		—	—	48-693	—	—
	34	Boiler Pad—Right	—							
	35	" " —Left	—							
∅	36	Furnace Bearer Support	2	482A5159		—	—	48-694	—	—
	37									
	38	GROUP 49—GAUGES, TEMPLATES & JIGS								
	39									
	40									
	41									
	42	GROUP 50—GUIDES & ATTACHMENTS								
M	43	Guide	6	502B5000		—	50-1	—	—	—
	44									
	45									
	46	GROUP 51—GRATE ARRANGEMENT								
M	47	Grate Arrangement	1	A-11818 Line 6	514A5002. future.					
	48	GROUP 52—GRATE DETAILS								
	49									
	50									
M	51	Grate Bars	7	522A5048		—	52-16	—	—	—
	52	" "								
	53	" "								
	54	" Center Rail								
M	55	" Side "	1	A-11819 Set 6		—	52-133	—	—	—
M	56	" " "	1	"		—	52-134	—	—	—
M	57	" Cover Plate	—							
M	58	" "Shaker" Pins	1	Drill To Suit E. Shop	3/4" Riv. 3" Long					
M	59	" Shaker Pins	1	" " " "	5/8" " 2 1/4" "					
M	60	" " "	3	" " " "	5/8" " 2 1/2" "					
M	61	" " "	2	" " " "	5/8" " 3" "					

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 52—GRATE DETAILS (Cont.)								
	1	Grate Dead Plate	—							
	2	" " "	—							
MW	3	" Drop "	1	522A 5057		—	52-13			
MW	4	" Dump Shaft	1	11816 SET 10		118F 77				
MW	5	" " " Bearing	2	522F 5093		—	52-122			
	6	" " " "	—							
MW	7	" " " Links	2	TO SUIT ERECT. SHOP		118F 73	—	—	—	—
MW	8	" " " Lever	1	15020		118F 74	—	—	—	—
	9	" " Lever	—							
MW	10	" Shaker Shaft Bracket	1	A-11803		—	52-107	—	—	—
MW	11	" " " "	1	"		—	52-108	—	—	—
	12	" " Lever	—							
MW	13	" " Shaft	1	522R 5008		522R 5008	—	—	—	—
	14	" " "	—							
MW	15	" " " Lever	1	522J 5009		52D 5012	—	—	—	—
	16	" " " "	—							
MW	17	" " " Hand Lever	1	A-11818		118F 110	—	—	—	—
	18	" " " " "	—							
MW	19	" " Lever Connection	1	522C 5020 A-11818		522C 5020 ~~118F 135~~	—	—	—	—
	20	" " " "	—							
MW	21	" " Connection Bar	1	A-11870 SET 5		A-11870 SET 5	—	—	—	—
	22	" " " "	—							
	23	GROUP 53—H'NDRAIL & STEPS (En.&Tr)								
	24	HAND RAIL								
P	25	" " Bracket	2	10010			53-10			
P	26	" " Balls	4	532E 5034			53-4			
P	27	" " Columns	5	532A 5034			53-1			
P	28	" " "	2	A-11406			53-8			
P	29	" " "	2	A-11404			53-7			
	30	" " "	—							
P	31	" " " Blocks	2	532C 5034		—	53-3	—	—	—
	32	" " " "	—							
P	33	" " Flanges	2	532F 5034		—	53-5	—	—	—
P	34	Cab Handle—Right	1	532J 5002		532J 5002	—	—	—	—
P	35	" " —Left	1	"		"	—	—	—	—
	36	Coal Bunk Handle—Right	—							
	37	" " " —Left	—							
P	38	~~Tank~~ CAB Handle	2	B-11145-LINE 1		B-11145 LINE 1 53B 5018 ~~103F 18~~	—	—	—	—
P	39	End Timber Handle	2	213A 5023			—	—	—	—
	40	" " "	—							
P	41	" " " Bracket	2	213A 5023		103F 122	—	—	—	—
	42	" " " "	—							
	43									
	44	" " TREAD								
	45	~~CAB STEP BRACE RS.~~ Bottom Bracket Step	4	532A 5068 ~~532A 5068~~	after 12-20-24 DT	53D 5007 53A 5033				
P	46	Cab Step RIGHT	1	533A 5012	PLATE	~~53D 5029~~				
P	47	" " LEFT	1	533D 5012						
P	48	" " BRACKET	2	"		53F 5010				
P	49	" " "	4	"		111F7				
P	50	" " Brace	1	"		53A 5024				
P	51	" " "	1	"		53A 5025				
	52	Cylinder Step								
	53	" Hood Step								
	54	Generator Step								
P	55	End Timber Step—Front	6	213A 5023		103F 18	—	—	—	—
P	56	" " " —Back	2	"		103F 43	—	—	—	—
	57	Headlight Step								
	58	Pilot Step								
	59	" "								
	60	Sand Box Step								
	61	" " " Bracket								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.								
	1	Flag Socket	—							
	2	" "	—							
	3	Headlight { ~~Oil~~ Electric }	2	16" SUNBEAM CASE WITH TURBO GENERATOR			—	—	—	—
	4	Headlight Bracket	2	5353 SET II	PLATE	—	—	—	—	—
	5	" Columns								
	6	" Shelf—Front	1	10020	PLATE	—				
	7	" " —Rear	1	¼" × 14" × 24		—				
	8	Generator Bracket	2	10003		100F3				
	9	" Shelf	1	"	¼" × 15" × 18"					
	10	Lamp	1	DAYTON ELECTRIC	PURCHASED					
	11	"	1	" "						
	12	" Bracket	1	542B5011		542B5011				
	13	" "	—							
	14	Number Plate	1	542A5009					54-6	
	15	" " Stud	1	A-12969					—	
	16	Builder's Card	2	542A82					54-169	
	17	Name Plate	2	B-11138			54-4		—	
	18	Patent Plate	1	542A5006			—		54-183	
	19	Property Plate	—							
	20	Superheater Patent Plate	1	542A106		—	—	—	54-178	—
	21	Electrical Equipment	1 SET	54M05004		—	—	—	—	—
	22									
	23									
	24	**GROUP 55—INJECTORS & FEED, WATER**								
	25	Injectors	2	#7 NATHAN LIFTING LEVER HANDLE MONITOR TYPE "88"						
	26	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP				
	27									
	28									
	29									
	30	Injector Check Valve	2	1½ SWING	PURCHASED	—	—	—	—	—
	31	" " Flange	—							
	32	" Stop Valve	2	552D5010	PURCHASED	—	—	—	—	—
	33	Feed Pipe Strainer	—							
	34	" " Bracket	2	552A5036		—	55-3	—	—	—
	35	" " " Cap	2	"		—	55-4	—	—	—
	36	" Pipe Hanger								
	37	" Hose Connection								
	38	" " " Nuts								
	39	" " " "								
	40	" " " Nipples								
	41									
	42									
	43									
	44	**GROUP 57—LAGGING & JACKET**								
	45	Lagging (Boiler)	1 SET	57M05000-A		—	—	—	—	—
	46	" Panel								
	47	" "								
	48	" "								
	49	" Angle Iron								
	50	" " "								
	51	Jacket (Boiler)	1 SET	PICKLED STEEL		—	—	—	—	—
	52	" Band	—							
	53	" " Angle	4	57D5000		57D5000				—
	54	" Clamp	36	570D46		—				57-28
	55	" " EYE BOLT	6	572A5004		572A5004				—
	56	Plug Casing	5	572A6		—				57-4
	57	" "								
	58	" Cover								
	59	Cylinder Lagging								
	60	" Jacket								
	61	" Hood	1	572H5006	PLATE	—	—	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 58—LINK MOTION								
✓	1	Link	3	583 B 5002		—	—	58-1	—	—
	2	" —Top Half	—							
	3	" —Bottom Half	—							
✓	4	" Saddle	3	583 B 5002		81-F-17	—	—	—	—
✓	5	" " Bolts	6	8511 SET 11		—	—	—	—	—
	6	" " "	—							
✓	7	" Block	3	582 A 5014		FIN. SIZES 1½ × 2¼ × 3"	Z	Z	Z	Z
✓	8	" " Pin	3	8512 SET 9		—				
✓	9	" " Plates	6	582 A 5014	C.R. STEEL	—				
	10	" " Ends	—							
✓	11	" Hanger	3	582 A 5029		582 A 5029	—	—	—	—
✓	12	" " Pin	3	8513 SET 3		—	—	—	—	—
	13									
	14	GROUP 59—OIL CUPS & LUBRICATION								
✓	15	Lubricator	2	NATHAN 4 FEED 1918 TYPE		—	—	—	—	—
✓	16	" Bracket	2	TO SUIT ERECT. SHOP		TO SUIT ERECT. SHOP	—	—	—	—
	17									
✓	18	Bottom Bracket Oil Cup	4	592 A 5006		—	59-48	—	—	—
✓	19	" " " " Cap	4	"		—	59-49	—	—	—
	20	" " " " Nut								
	21	" " " " Plug								
	22	" " " " Cover								
	23	" " " " "								
	24	" " " " Hinge Lugs								
	25	" " " " " "								
✓	26	" " Grease Cup	4	592 A 5007		—	59-50	—	—	—
	27	" " " " Cap	—							
✓	28	" " " " Nut	4	592 A 5007		—	59-51	Z	Z	Z
✓	29	" " " " Plug	4	"		—	59-52			
✓	30	Crosshead ~~Oil~~ GREASE Cup	3	#1 POWELL-PLAIN STEEL SHANK ¼" P. THD.			—			
	31	" " " Cap								
	32	" " " Nut								
	33	Ecc. Strap Oil Cup								
	34	" " " " Cap								
	35	" " " " Nut								
	36	Gear Oil Cups								
	37	" " " Covers								
✓	38	Guide ~~Oil~~ GREASE Cup	6	#3 POWELL-PLAIN STEEL SHANK ½" PIPE THD.			—	—	—	—
	39	" " " Cap								
	40	" " " Nut								
	41	Link Oil Cup								
	42	" " " Cap								
	43	" " " Nut								
✓	44	Packing Oil Cup	6	592 A 5005		—	—	—	59-44	—
✓	45	" " " Cap	6	"		—	—	—	59-45	—
	46	" " " Nut								
	47	Rod Oil Cup								
	48	" " " Cap								
✓	49	" " " Plug	3	592 A 5025		—	59-355	—	—	—
	50	" " " Latch								
	51	" " " Spring								
	52	" " " Base								
	53	Tumb. Shaft Oil Cup								
	54	" " " " Cap								
	55	" " " " Nut								
✓	56	Truck Box Oil Cup Cover—R. Box	4	TO SUIT TRUCK SHOP	PLATE	—	—	—	—	—
	57	" " " " " —L. Box								
	58	" " " " " Hinge Plate	4							
	59	Valve Stem Oil Cup								
✓	60	Oil Can Shelf	1	592 A 5004		—	59-120	—	—	—
	61	" " " Bracket								

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 60—OIL BURNER, ENGINE ONLY								
	1	Oil Burner								
	2	" " Arrangement								
	3	" " Support								
	4	" " Turret								
	5	" Cock Rod								
	6	" " " Jaw								
	7	" " " "								
	8	" " Shaft								
	9	" " " Arm								
	10	" " " Hanger								
	11	" " " Collar								
	12	" Pipe Support								
	13	" " "								
	14	" " Clamp								
	15	" " "								
	16	" Heater Support								
	17	" " Clamp								
	18	" Regulator Bracket								
	19	" " Shaft								
	20	" " " Arm								
	21	" " " Hanger								
	22	" " " Collar								
	23	" " " "								
	24	" " Quadrant								
	25	" " Lever								
	26	" " Latch								
	27	" " " Handle								
	28	" " " Spring								
	29	" " " Link								
	30	" " " Guide								
	31	" " " Pin								
	32	" " Lever Dowel								
	33	" " " Stop								
	34	" " " Thumb Nuts								
	35	" " " Adjusting Screw								
	36	" Damper Regulator Quadrant								
	37	" " " Handle								
	38	" " " Shaft								
	39	" " " " Bushing								
	40	" " " " Arm								
	41	" Heater								
	42	" " Stuffing Box								
	43	" " " " Follower								
	44	" " " " Nut								
	45									
	46									
	47									
	48									
	49									
	50	GROUP 61—PAINT'G, LETTER'G, NUM'G								
	51	Lettering								
	52	Numbering								
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	" Bottom Plate								
	4	" Corner Iron								
	5	" Brace								
	6	" "								
	7	" "								
	8	" "								
	9	" " Rod								
	10	" Knee								
	11	" "								
	12									
	13									
	14	Snow Plow	—							
	15									
	16									
	17	GROUP 63—PIPE FITTINGS								
	18	Air Gauge Fitting	—							
MW	19	" Pump Oil Fitting	1 SET	7138	STICK BRASS	—	—	—	—	—
	20	" " " " Nut								
	21	" " " " Swivel								
	22	" " Exhaust Wye								
	23	" " Tee								
	24									
	25									
MW	26	Blower Fitting	1	632A5004		—	—	—	63-6	—
	27	" " Nut	—							
MW	28	Brake Release Check	1	13523	STICK BRASS	—	—	—	—	—
MW	29	" " " Valve	1	"		—	—	—	63-64	—
	30	Brake Ex. Fitting								
	31	" " " Nut								
	32	Coal Sprinkler Fitting								
	33	" " " Nut								
	34	" " " Swivel								
MW	35	Cylinder Oil Pipe Fitting	1 SET	5600459	STICK BRASS	—	—	—	—	—
	36	" " " " Nut								
	37	" " " " "								
	38	" " " " Swivel								
	39	" " " Bracket								
	40	Angle Valve Nut								
	41	" " Swivel								
	42	Through Valve Nut								
	43	" " Swivel								
	44	Oil Cock Nut								
	45	" " Swivel								
MW	46	Lubricator Check	6 SET	632A5005	STICK BRASS	—	—	—	—	—
MW	47	Steam Brake Oil Fitting	1 "	7138	" "	—	—	—	—	—
	48	" " " " Nut	—							
	49									
	50	Check Pipe Union								
	51	" " " Nut								
	52	" " " Swivel								
	53	Oil Pipe Union								
	54	" " " Nut								
	55	" " " Swivel								
	56	Steam Pipe Union								
S	57	" " " Nut DAMPER CYL.	2	632A5	STICK BRASS					
S	58	" " " Swivel " "	2	"	BRAZING METAL					
MW	59	SUPERHEATER DAMPER CYL. RELIEF VALVE	1	202A5140						
MW	60	" " " " " TOP	1	"	STICK BRASS	Z	Z	Z	20-71 — 20-73	Z
MW	61	" " " " "	1	"						

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 63—PIPE FITTINGS (Cont.)								
	1	Pipe Clamp	7							
	2	" "								
	3	" "								
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14	**GROUP 64—PIPING ARRANGEMENTS**								
	15	Piping Arr'g. General	7							
	16	" " Air Brake								
	17	" " Cooling Pipes								
	18	" " Bet. Eng. and Tender								
	19	" " Oil Heater								
	20	" " Sprinkler								
	21	" " Steam Heat								
	22	Damper Cyl. Piping	1	643A40		RBK has asked for Print (Print issued to J. J. Malloy 9-28-23 by RBK.				
	23									
	24									
	25									
	26	**GROUP 65—PISTON AND ROD**								
M	27	PISTON HEAD	3	652A5135		—	65-99	Z	Z	Z
M	28	" Packing Rings, Material For	6	653F5000	Pot Pattern	—	65-6			
M	29	" Rod	3	652A5123		FIN. SIZES 27" x 2 3/16 DIA.	—			
	30									
	31									
	32									
	33	PISTON ROD PACKING MATL			Pot Pattern					
M	34	Packing Rings	9 SET	652A-5153 ~~7719 SET 1~~	(PAXTON & MITCHELL FOR SUPERHEATED STEAM)					
M	35	" Spring Washer	3	7759 " 4		—	65-45	—	—	—
M	36	" Swab Cap	3	652A5091		—	—	—	65-26	—
	37	" Follower	—							
M	38	" Stuffing Box	3	652A5055		Z	65-41	Z	Z	Z
M	39	" " " Gland	3	652A5059			65-42			
M	40	" Vibrating Cups	3	652A5082			65-46			
M	41	" Spring	3	#13			—			
	42									
	43									
M	44	PACKING STUDS Piston Rod	12	7758 SET 4		—	—	—	—	—
	45	**GROUP 66—PLUGS**								
	46	Arch Tube Plug	—							
M	47	Back Head Plug (Prime)	3	1 7/8"-11 1/2 THD. TAPER 3/4 IN 12"-PURCHASED			—	—	—	—
	48	Crown Plug	—							
	49	Ecc. Strap Plug	—							
M	50	Firebox Plug (Prime)	4	1 7/8"-11 1/2 THD. TAPER 3/4 IN 12"-PURCHASED			—	—	—	—
	51	" "								
M	52	Fusible Plug	1	662A5000		—	—	—	66-113	—
	53	Indicator Plug								
	54	Smoke Box Plug								
	55	Tube Sheet Plug								
	56	Test Plug								
M	57	Waist Plug (Prime)	5	1 7/8"-11 1/2 THD. TAPER 3/4 IN 12" PURCHASED			—	—	—	—
	58	Washout Plug Valve								
	59	" " " Cap								
	60	" " Flange								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER								
	1	Reverse Lever	1	—		83F97			—	
	2	" " Arrangement	1	683 B 5004		—			—	
	3	" " Handle	1	D-1315		—			68-8	
	4	" " Latch	1	3294 STYLE 1		83F49 FIN. SIZES 1¼×2"×3½"				
	5	" " " Guide	1	"						
	6	" " " Rod	1	"		83F109 FIN. SIZES ¾×1"×2 15/16"				
	7	" " " ~~Details~~ STEM GUIDE	1	"						
	8	" " Quadrant	1	682A5017		83F42				
	9	" " "	1	"		83F50				
	10	" " " Plate	1	682A5030	PLATE	—				
	11	" " Foot Rest	—							
	12	" " Shaft	1	682F5008		682F5008	—	—	—	—
	13	" " " Length	—	14" CTR. TO CTR		—	—	—	—	—
	14	" " Arm								
	15	" " Fulcrum								
	16	" " " Bracket								
✓	17	" " " Pin								
	18	" " Shaft Stand	1	683 B 5004		83F 160				
	19	" " Quadrant Bracket	1	"		68B5007				
	20	" " " "	1	"		109F124				
	21	" " " "	—							
	22									
	23									
	24									
	25									
	26	GROUP 69—REVERSE SHAFT								
	27	TUMBLING SHAFT	1	692D5047	ANGLE A=1¼°	692D5047	~~Cast Iron~~	~~Cast Steel~~	—	—
	28	" " Arm	—							
	29	" " Collar	—							
	30	" " Box	3	8215 SET 2			69-5			
	31	" " " Cap	3	"			69-6			
	32	" " Coupling Ball	2	8316 SET 2			69-2			
	33	" " " Socket	2	"			69-3			
	34	" " " Cap	2	"			69-3			
	35	" " " Sleeve	1	"		FIN. SIZES 1½" HEX. 3½ LONG	—			
	36	" " " Conn.	—							
	37	" " " "	1 Pr.	8316 SET 2		1½" HEX. 8 15/16" LONG	—	—	—	—
	38	" " " Nut	1	"		1½ " 3¼ "	—	—	—	—
	39					—	—	—	—	—
	40	GROUP 71—RUNNING BOARDS								
P.	41	RUNNING BOARD	1 SET	713 C 5036 ← Future	WOOD	—	—	—	—	—
P.	42	" " BRACKET ON BOILER	1	712C5033		712C5033	—	—	—	—
P	43	" " Bracket	5	488A5033		71-H-5007	—	—	—	—
P	44	" " "	4	713A5019	PLATE					
P	45	" " " after 12-20-24 D.T.	3 ②	713B5019	"					
P	46	" " "	1	713C5019	"					
P	47	" " "	2	488A6033	FLAT BAR	1"×4½"×30"				
P	48	" " " Engine	1	712 L 5028 ← Future	PLATE					
	49	" " " "								
	50	" " " "								
	51	" " " "								
	52	" " " "								
	53	" " " "								
	54	" " " "								
	55	" " " Tender								
	56	" " " "								
	57	" " " "								
	58	" " " "								
	59	" " " "								
	60	" " " "								
	61	" " " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 72—RODS								
MW	1	Connecting Rods	3	723A5003		89 F 32			—	
MW	2	" " Brass, Xhd End	3	722A5035					72-12	
MW	3	" " " " "	3	"					72-12	
MW	4	" " " Crank "	3	722A5021	722B5021 - ROUGH BORE R-17030				72-75 72-~~72~~ 72-75	
MW	5	" " " " "	3	"	" "	"			72-70	
	6									
MW	7	Connecting Rod Strap	3	722A5086		722A5086 FIN. SIZES 1 3/4 x 2 1/2 x 2 3/4 FIN. SIZES 2" x 2 1/2 x 3 3/4				
MW	8	" " Wedge—Top	3	723A5003						
MW	9	" " " —Bottom	3	"						
MW	10	" " Key—Top	3	"		89 F 35				
	11	" " " —Bottom	—							
	12	" " Wedge Liner	—							
	13									
	14									
	15									
	16	GROUP 73—SAND BOX								
MW	17	Sand Box—Front	1	733A5000						
MW	18	" " Base	1	12247 LINE 4		—	73-69			
MW	19	" " Top	1	733A5000	PRESSED STEEL					
MW	20	" " Lid	1	732B5000			73-31			
MW	21	" " Valve	2	732A5022			73-4			
M	22	" " Lever—Short	1	733A5000			73-20			
M	23	" " " —Long	1	"		73A5000				
M	24	" " Rod Handle	1	732A5027			73-6			
M	25	" " Rigging	2	733A5000		1/4" x 1 1/4" x 19 3/4"	—			
M	26	" " Rod	1	3/8" PIPE TO SUIT E.S.						
M	27	Air Sander	4	732A5002			73-93			
M	28	" " Nozzle	4	"	STICK BRASS					
M	29	Sand Box—~~Flue~~ LUGS	4	733A5000		530585				
	30	" " Funnel	—							
	31	" " Scoop								
M	32	SAND BOX—Back	1	732B5032	PLATE					
	33	Back Sand Box Arrangement	—							
M	34	" " " Base	1	732A5025			73-6			
M	35	" " " Top	2	732A5024			73-3/4			
M	36	" " " Covers	2	"			73-12			
	37	" " " Valve	—							
	38	" " " Shaft Hanger								
	39	" " " " " Caps								
	40	" " " Hand Lever								
	41	" " " " " Fulcrum								
	42	" " " " " Rod								
	43	" " " Horiz. Lever								
	44	" " " " " Fulcrum								
	45	" " " " " Guide								
	46	" " " Rod Jaws								
	47	" " " " "								
	48	" " " Shaft								
	49	" " " " Lever								
	50	" " " " "								
	51	" " " Valve Lever								
	52	" " " " Rod								
	53	" " " " "								
	54	" " " " " Conn.								
	55	" " " Rod Bell Crank								
	56	" " " " " " Fulcrum								
M	57	" " " Brace	2			122F87	—	—	—	—
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS								
M	1	COUPLING RING —Front	2	743A5010				74-16	—	
M	2	" " Half "	4	743B5010				74-17	—	
M	3	" " Bushing "	8	742A5035				—	74-19	
P	4	" " Oil Cellar "	8	742A5034			74-18	—	—	
	5	" " —No. 2								
	6	" " Half "								
	7	" " Bushing "								
	8	" " Oil Cellar "								
	9	" " —No. 3								
	10	" " Half "								
	11	" " Bushing "								
	12	" " Oil Cellar "								
M	13	" " —Rear	2	743A5010				74-16	—	
M	14	" " Half "	4	743B5010				74-17	—	
M	15	" " Bushing "	8	742A5035				—	74-19	
M	16	" " Oil Cellar "	8	742A5034			74-18	—	—	
	17									
M	18	CRANK SHAFT	1	745A5006		157F19	—	—	—	—
	19	Counterbalance								
	20	" Weight								
	21	" "								
	22	" "								
	23	" Yoke								
	24	" "								
M	25	Horn Coupling	2	742A5267		—	—	74-27	—	—
	26	" "	—							
M	27	" " Key	2	9060 Line 2		90-F-2	—	—	—	—
	28									
	29									
M	30	LINE SHAFT—Front Truck	1	9120 Line 1	743A5063	FIN. SIZES 82 5/8 × 44 1/4				
	31	" " —2nd "	—		Future					
	32	" " —3rd "	—							
M	33	" " —Rear "	1	9120 Line 1	"	FIN. SIZES 86 5/16 × 44 1/4				
M	34	" " Bearings, Outside—Front	2	742A5132		82 7/16 × 44 9/16	—	—	74-808	—
M	35	" " " Inside "	2	"		—	—	—	74-808	—
	36	" " " Outside—2nd								
	37	" " " Inside "								
	38	" " " Outside—3rd								
	39	" " " Inside "								
M	40	" " " Outside—R'r	2	742A5132		—	—	—	74-808	—
M	41	" " " Inside "	2	"		—	—	—	74-808	—
	42	" " " Plate—Front								
	43	" " " " —2nd								
	44	" " " " —3rd								
	45	" " " " —Rear								
M	46	" " Collar	4	742A5203				74-351		
M	47	" " "	3	742E5012				74-350		
M	48	" " "	1	742A5011 (5012)	For future orders split Collar on Rear of Line Shaft			74-349 (678)		
	49	" " "								
	50	" " "								
	51	" " "								
	52	" " "								
	53	" " "								
	54	" " "								
M	55	" " Coupling	2	742A5273 ROLLING		—	—	74-489	—	—
	56	" " "								
	57	" " "								
	58	" " "								
	59	" " "								
	60	" " "								
	61	" " "								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS (Cont.)								
	1	LINE SHAFT Coupling Key								
	2	" " " "								
	3	" " " "								
	4	" " Collar "								
MW	5	" " Pinion	4	742 65102		—	—	74-63-B	—	—
	6	" " "								
	7	" " "								
	8	" " "								
MW	9	" " Washer	4 Pr.	742 F 5149		—	74-153	—	—	—
	10	" " "								
	11	" " "								
	12	" " "								
MW	13	GEAR RIM	4	74365037		—	—	74-62-D	—	—
MW	14	" " Bolt	32	742 F 5254		—				
MW	15	" " Key	16	8824 SET #10		—				
MW	16	SQUARE SHAFT—Front	1	742 F 5250		742 F 5250				
MW	17	" " —Back	1	742 L 5250		742 L 5250				
	18	" " —Center	—							
	19	" "	—							
MW	20	" " Sleeve	2	742 B 5110		—	—	74-202	—	—
	21	" " "								
	22	" " "								
	23	" " "								
	24									
	25									
	26	GROUP 75—SMOKE BOX AND STACK								
	27	SMOKE BOX ARRANGEMENT	1	813 A 5003		—				
	28	" " Deflecting Plate	1	A-12938 LINE 2	PLATE	—				
	29	Deflecting Plate Angle	1 SET	"		(1) 129 F 82 (1) 129 F 265				
	30	Draft Pipe	1 "	813 A 5003	PLATE	—				
	31	" " Hanger	2	"		129 F 201				
	32	" " "	2	"		129 F 172				
	33	" " " KEY BOLTS	14	"		75 A 5030				
	34	NETTING FRAME Key Bolt	2	"		129 F 4				
	35	Netting Frame								
	36	" Ring								
	37	Cinder Pocket								
	38	" Pot Base	1	753 B 5027			75-4			
	39	" " Lid	1	752 A 5042			75-8			
	40	" " Hand Wheel	1	752 A 5043			75-9			
	41	" " Yoke	1	752 A 5041		129 F 55	—			
	42	Cleaning Hole	—							
	43	" " Flange	1	752 A 5056			75-17			
	44	" " Cover	1	752 A 5057			75-18			
	45	Peep " Flange	2	752 B 5054			75-62			
	46	" " Cover	2	752 A 5055			75-66			
MW	47	SMOKE BOX Brace—Right	1	TO SUIT ERECT. SHOP		130 F 69				
MW	48	" " " —Left	1	" " " "		130 F 69				
MW	49	" " " Pad	2	752 B 5047				75-10		
MW	50	" " " Pin	2	13002 STYLE 2						
MW	51	" " " Washer	2	13003 " 2						
MW	52	SMOKE BOX FRONT	1	A-12970 LINE 3	PLATE					
MW	53	" " " Door	1	"						
	54	" " " Liner	—							
	55	" " Door Liner	—							
MW	56	" " " Buttons	15	A-12952		—	75-455			
MW	57	" " " Hinge	1	"		75 A 5000				
MW	58	" " " "	1	"		75 A 5003				
MW	59	" " " " Lug	1	"		—				75-25
MW	60	" " " " "	1	"		—				75-26
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
W	1	SMOKE STACK (Type TAPER)	1	752B5024		———	75-29	———	———	———
	2	Smoke Stack Base								
	3	" " Extension								
	4	" " Top								
	5	" " Cone								
	6	" " " Bracket								
	7	" " " Brace								
	8	" " " "								
	9	" " Cleaning Hole								
	10	" " " " Cap								
	11	" " Hood								
	12	" " Ring								
	13	" " "								
	14	" " " Angle								
W	15	" " Saddle	1	752B5033		———	75-34	———	———	———
	16									
	17									
	18	GROUP 76—SPRINGS								
W	19	Truck Bolster Springs	40	762A5003						
	20	" Pedestal "	———							
	21	Drawgear Springs	———							
	22									
	23									
	24									
	25									
	26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.								
W	27	Steam Gauge	1	5½" ASHCROFT BRASS RING.		———	———	———	———	———
	28									
W	29	Safety Valve	2	2" CONSOLIDATED TYPE "H"						
	30	" "	———	A-11424 SET 1						
	31	" " Elbow	1	782A5005						
	32	" " Turret	1	"	STICK BRASS					
	33	" " " Bushing								
	34	" " " Ring								
	35	" " " Casing								
	36	" " " Flow-Bowl								
W	37	TURRET	1	783N5006					78-1	
W	38	" Ball Joint	1	A-11424 SET 1					78-5	
W	39	" Stuffing Box	1	782A5005					78-2	
W	40	" " " Nut	1	"	STICK BRASS				———	
	41	" " " Follower	———							
W	42	" Master Valve	1	782A5005					78-3	
W	43	" " " Nut	1	"	STICK BRASS					
W	44	" " " Stem	1	"	" "					
W	45	" " " Hand Wheel	1	"				27-14		
W	46	" Bonnet Ring	1	"				———	78-4	
	47	Turret (Auxiliary)	———							
	48	GROUP 79—STEAM PIPES & TEE HEADS								
D	49	STEAM PIPES	1	792B5019	4" PIPE		———			
D	50	" " Slip Joint	1	792B5040			79-90			
D	51	" " " " Gland	1	"			79-91			
D	52	" " Elbow	1	792A5024			79-632			
D	53	" " " Support	1	792B5027		792B5027	———			
	54	" " Tee Head	———							
D	55	" " Joint Ring—Top	1	792S5029			79-12			
D	56	" " " " —Bottom	1	792U5029			79-31			
D	57	" " " "	2	792A5053			79-31			
	58	" " " " Gland	———							
D	59	" " Casing	1 PAIR	B-12151		———	79-92	———	———	———
	60	" " Flange	———							
	61	" " Nipple	———							

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 81—SUPERHEATER								
	1	Superheater Arrangement	1	813A5003		—				
	2	" Header	1	940D388	PURCHASED	—				
	3	" " Support	1 R.	A-12968 LINE 1		A-12968 LINE 1				
	4	" " "	1 L.	"		"				
	5	" Return Bends	1 SET	FORGED	PURCHASED					
	6	" UNIT CLAMP BOLT & NUT	10	812A82						
	7	" Tube End	20	812C45	PURCHASED					
	8	" " Joint		Cd. 2-L-11753 To be Traced.						
	9	" " Clamp	10	812A44	PURCHASED	—				
	10	" " " Washer	20	812B42		812B42				
	11	" " " Bolt	10	812A38		812A38				
	12	" " " " Washer	10	812A42		812A42				
	13	" " Support	10	812A84	PURCHASED					
	14	" " Bands	10	812A85	"					
	15	" Unit	1 SET	940D381	"					
	16	" Damper	1	940D235	PLATE					
	17	" " Cyl.	1	L.S. COMPANY 4-L-11436-A	PURCHASED					
	18	" " " Arm	—							
	19	" " " Support	1	812E27		—	81-9			
	20	" " Arm	1	812A48		812A48				
	21	" " Rod	—							
	22	" " Shaft	1	812A43		812A43				
	23	" " "	—							
	24	" " " " Bearing	1	A-12966 LINE 1		—	81-30			
	25	" " " "	1	812P40		—	81-16			
	26	" " " "	—							
	27	" " " "	—							
	28	" " " Link	1	812A5013		812A5013				
	29	" " Counterweight	1	812A18		—	81-31			
	30	" " " Arm	1	812A5001		812A5001				
	31	" " Hinge	1	940D235		940S58				
	32	" " Flag	—							
	33	" Deflector Handle	2	752A79 ~~320D28~~		75A139 ~~320D28~~				
	34	" " Clamp	4	812B51		3" x 2 3/4" x 4"				
	35	" " Plate Stud	6	812A51		—				
	36	GROUP 82—TANK VALVES								
	37	TANK Valve—Water	2	823A5006			—		82-22	
	38	" " Body	2	"			82-23			
	39	" " " Plate	2	"			82-19			
	40	" " Bottom Plate	2	"			82-20			
	41	" " Top "	2	"			82-18			
	42	" " Cap	2	"			82-16			
	43	" " Seat	2	"			—		82-21	
	44	" " Stem	2	A-15147 STYLE 1		151F2	—			
	45	" " " Nut	2	823A5006			82-17			
	46	" " " Handle	2	"			82-14			
	47	" " " Clamp Nut	2	"			82-15			
	48	" " Strainer	2	"			—			
	49	Siphon Arrangement	—							
	50	Siphon	1	822A5001			82-29			
	51	" Tube	1	"			82-30			
	52	" Pipe Flange	1	11305 LINE 3			82-42			
	53	" Goose Neck								
	54	" Stand Pipe								
	55	" " " Flange								
	56	" " " "								
	57	" Hose Strainer								
	58	" " " Body	1	15142 LINE 1			82-24			
	59	" " " Cap	1	"			82-25			
	60	" " Nipple	2	11329 LINE 4	4" PIPE		—			
	61	" " Bracket	5	—		113F18				

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
	1	Tank Valve—Oil								
	2	" " Seat								
	3	" " Cap Plate								
	4	" " Plate								
	5	" " Rod								
	6	" " Screen								
	7	" " Nut								
	8	" " Flange								
	9	" " Lever								
	10	" " Stem								
	11	" " " End								
	12	" " " Stuffing Box								
	13	" " " " " Nut								
	14	" " " " " Gland								
	15	" " " " " Follower								
	16	" Cock								
	17	" Cooler Cock								
	18	Tank Measuring Rod								
	19	" " " Flange								
	20	" " " Handle								
	21	" " " Guard								
	22	" " " "								
	23									
	24	GROUP 83—TANK—ENGINE								
	25	Fuel Bunk								
	26	" " Rack								
	27	" " Tie Rod								
	28	" " Straps								
	29	" " Lugs								
	30	" " Gate								
	31									
	32									
	33	GROUP 85—TENDER FRAME								
	34	Tender Frame								
	35	" " Angle								
	36	" " "								
	37	" " "								
	38	" " "								
	39	" " Bolster—Top								
	40	" " " —Bot.								
	41	" " Brace								
	42	" " "								
	43	" " "								
	44	Frame Centre Plate								
	45	" End Casting								
	46	" " Timber Brace								
	47	" Side Bearings								
	48	GROUP 87—TENDER DECK, TOOL BOX								
	49	Tool Box								
	50									
	51	GROUP 88—TENDER TANK								
	52	Tank—Water	1		883 ~~A 5040~~					
	53	" Material Bill	1 SET		88M05041					
	54	" Funnel	1		882C5002					
	55	" " Lid	1		882A5003					
	56	" " ~~Hinge~~ RING	1		"					
	57	" " Handle	1		"					
	58	" " ~~Hinge Lug~~ RING	1		882C5002					
	59	" " ~~" Pin~~ RING	1		"					
	60	" LUG ~~Angle~~	1		A-15139 STYLE 5					
	61	" Lug	3		" " 2					

88A5003
151F135
88A5002
151F111
470S137
470S138

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK (Cont.)								
W	1	Tank—Headlight Bracket	2	883 A-5040		100 F 10	Z	Z	Z	Z
W	2	" —Ladder	1 Pr	A-15103		151 F 20				
W	3	" "				151 F 20				
W	4	" —Coal Gate ANGLE	2	883 A 5040		88 B 5010	Z	Z	Z	Z
W	5	" ~~—Fuel Rack~~	1	TO SUIT ERECT. SHOP	WOOD					
W	6	" —Shoveling Sheet	2	3/16 × 27½" × 130"	PLATE	—				
	7	" " "								
	8	Tank—Oil								
	9	" Material Bill								
	10	" Funnel								
	11	" " Cover								
	12	" " " Eye Bolts								
	13	" " " Tail Nuts								
	14	" " " Handle								
	15	" " Lug								
	16	" " "								
	17	" " Ring								
	18	" " Angle								
	19	" Lug								
	20	" "								
	21	**GROUP 91—THROTTLE & DRY PIPE**								
Ø	22	Throttle Arrangement	1	913 A 5013		Z	—	Z	Z	Z
Ø	23	Throttle Valve	1	B-12124 SET 4	912 A 5079		91-7			
Ø	24	" Case	1	B-12139 LINE 3			91-147-B			
Ø	25	" Valve Stem	1	912 L 5057		912 L 5057	—			
Ø	26	" " " Stop	1	B-12158 LINE 3		B-12158 LINE 3	—			
	27	" Pipe Elbow	—							
	28	" Pipe Flange	—							
	29	" " Joint Ring								
Ø	30	" Bell Crank	1	B-12143		B-12143	—	—	—	—
	31	" " " Fulcrum	—							
	32	" Pipe Support	—							
Ø	33	" " Yoke	1	913 A 5013		91 C 5012	—	—	—	—
Ø	34	" " Bracket	1	"		121 F 110	—	—	—	—
	35	" " "	—							
Ø	36	" Stuffing Box	1	912 A 5050		—	91-14	—	—	—
Ø	37	" " " Gland	1	"		—	91-15	—	—	—
	38	" " " Flange	—							
	39	" Baffle Plate								
	40	" " "								
	41	" " " Handle								
	42	" " " Angle								
	43	" " " Studs								
	44	" " " Nuts								
	45	" " " Keys								
W	46	THROTTLE LEVER	1	913 A 5018		121 F 70	L	L	—	Z
W	47	Throttle Lever Handle	1	D-1315		—			68-3	
W	48	" " Latch	1	913 A 5018		1¼" × 2½" × 5¼"				
W	49	" " " Rod	1	"		121 F 168				
W	50	" " Links	2	"		121 F 136				
W	51	" " Quadrant	1	"		—				91-21
W	52	" " Fulcrum	1	B-12103 LINE 2		91 B 5030				
	53	" " Guide	—			91 A 5031				
W	54	" " Rod	1	913 A 5018		~~121 F 122~~				
W	55	" " Support	1	—		121 F 75				
Ø	56	DRY PIPE	1	11691 LINE 4	4½" PIPE	—				
Ø	57	" " Ring	1	"		—	91-150	—	—	—
Ø	58	" " Support	1	912 A 5033		91 A 5013				
Ø	59	" " "	1	"		91 A 5014				
	60	" " Yoke	—							
Ø	61	" " Elbow	1	11691 LINE 4		—	91-401	—	—	—

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 92—TOOLS								
	1	Brake Shoes								
	2	Chisel—Cape								
	3	" —Flat								
	4	Hammer—Soft			Wood Handle					
	5	Jack Screw								
	6	" " Cap								
	7	" " Base								
	8	" " Collar								
	9	" "								
	10	" " Cap								
	11	" " Base								
	12	" " Collar								
	13	Journal Brass Rod								
	14	Packing Hook								
	15	" Spade								
	16	Pinch Bar								
	17	Jack Bar								
	18	Torch								
	19	" Cap								
	20	" Nozzle								
	21	Valve Tram								
M	22	Wrench List	1 SET	92M.O.5009						
	23	Ash Hoe								
	24	" " Handle								
	25	Clinker Hook								
	26	Poker								
M	27	Wrecking Frogs	1 PR.	LIMA #4						
	28	Grease								
M	29	~~Oil~~ TOOL EQUIPMENT	1 SET	923A5004						
	30	**GROUP 93—TRUCKS & DETAILS**								
M	31	TRUCK Plan	2	937C5011			—	—	—	—
M	32	" Bolster	2 SET	933C5037			—	—	—	—
	33	" " End Casting—R.								
	34	" " " " —L.								
M	35	" " " Separator	4	932A5107			—	—	93-614	—
M	36	" " Spring Centers	80	A-9548			—	93-53	—	—
	37	" "								
	38	" "								
	39	" " Brake Rod Roller								
	40	" " " " " Brkt.								
	41	" " " Lever Guide								
	42	" " " " "								
M	43	" Center Plate	2	932A5415				~~93-6~~ 93-133	Z	Z
M	44	" Side Bearing Base	4	932A5250	(R 17600-1-16-37 TWO SHIMS)			93-6 93-81	—	
M	45	" " " Block	2 2	932L5404 932J5404	½"XA½"X9½ Steel plate—4			~~93-185~~ 93-81	—	
M	46	" Frame	2	933B5033						
M	47	" "	2	933B5034				93-608	Z	Z
M	48	" " Splice	2	"		FIN. SIZES 1¾×4"×18"		93-609	—	
	49	" " "								
	50	" Right Arch Bar								
	51	" Left Arch Bar								
	52	" Right Inverted Arch Bar								
	53	" Left Inverted Arch Bar								
M	54	" Bottom Tie Bar RIGHT	1	932A5372		932A5372	—	—	—	—
M	55	" " " " " ~~LEFT~~ "	1	932B5372		932B5372	Z	Z	Z	Z
M	56	" " " " ~~Angle~~ LEFT	1	932A5371		932A5371				
M	57	" " " " " "	1	932B5371		932B5371				
	58	" " " Fill. Block								
	59	" Column—Right								
	60	" " —Left								
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 93—TRUCKS & DETAILS (Cont.)								
M	1	Truck Crosstie Bar—Top	2	932D5276		932D5276				
M	2	" " " "	2	932E5276		932E5276				
M	3	" " " " ~~Angles~~ Bottom	2	932A5373		932A5373				
M	4	" " " " ~~"~~ Center	2	932C5127		3/4×4"×6" Angle 71" Long.				
M	5	" " " ~~Bottom~~ "	2	932D5127		3/4×4"×6" " 71" "				
	6	" " " "	—							
M	7	" " " " Fill Block	8	932B5373		1 1/2"×1 1/2"×3"	—	—	—	—
M	8	" " " ~~Center~~ Bottom	2	"		932B5373	—	—	—	—
	9	" " " "								
M	10	" Diagonal Braces	4 Pr	937C5011		93D5000				
M	11	" Crosstie Angle	2	932D5276		1/2"×4"×4" Angle 76 15/16" Long				
M	12	" " "	2	932E5276		1/2"×4"×4" " 76 15/16" "				
	13	" " "	—							
M	14	" Equalizer	2	932B5203		932B5203				
M	15	" Gear Cover	2	932A5433	Plate					
M	16	" " "	2	932B5433	"					
M	17	" " "	2	932A5434	"					
M	18	" " "	2	932B5434	"					
M	19	" " " Bracket	4	932C5408	"					
M	20	" " " "	4	932D5408	"					
M	21	" " " " Guide	8	932A5260	"					
	22	" " " "	—							
	23	"	—							
P	24	" King Bolt	2	10153 Set 5		10153 Set 5	—	—	—	—
P	25	" " " Key	2	" " 4		" " 4	—	—	—	—
M	26	" Safety Chain—To Frame R. Rear	1	932C5178		932C5178				
M	27	" " " " " L. Front	1	932D5178		932D5178				
M	28	" " " " " R. "	1	932E5178		932E5178				
M	29	" " " " " L. Rear	1	932F5178		932F5178				
	30									
M	31	TRUCK BOX—Right	4	933C5036		—	—	93-614-B	—	—
	32	" " "	—							
	33	" " "								
	34	" " "	—							
M	35	" " Cap—Right	4	932A5184		—	93-680	—	—	—
	36	" " " "	—							
	37	" " " "								
	38	" " " "	—							
M	39	" Pedestal	4	933B5035		—		93-613		
M	40	" " Cap	4	932A5320		—		93-342		
M	41	" " " Shim	8	"		1/4"×1 7/8"×13"		—		
M	42	" " " "	8	"		1/16"×1 7/8"×13"		—		
M	43	" " " "	16	"		1/8"×1 7/8"×13"	—	—		
	44	" " " "	—							
M	45	" Box—Inside	4	932A5147		—	—	93-290	—	—
M	46	" " Cap—Inside	4	9338 Set 1		—	93-98	—	—	—
	47	" Inside Box Spring Center	—							
M	48	" " Thrust Plate	4	9305 Set 2		—	—	—	93-138	—
M	49	" Journal Brass	9	932A5079		—	—	—	93-121	—
	50	" " " Wedge	—							
M	51	" Inside Box Shims	8	932D5446	Plate	1/8" Thick				
M	52	" " " "	24	"	"	1/16" "				
M	53	" " " "	16	"	"	1/32" "				
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 94—VALVES—DISTRIBUTION								
	1	Piston Valve								
	2	" " Follower								
	3	" " T-Ring								
	4	" " Snap Ring								
M	5	Slide Valve	3	942A5030		—	94-24	—	—	—
M	6	" " Plate	3	"		—	94-25	—	—	—
	7	" " Packing Strip	—							
	8	" " " "	—							
M	9	" " Ring—Mat'l For	3	6536 5001	Pot Pattern	—	65-91	—	—	—
M	10	" " Spring	3	#2						
	11									
	12									
	13	VALVE STEM	—							
M	14	" " Crosshead	3	8018 SET 4			94-4			
M	15	" " " Guide	3	942A5032			94-9			
M	16	" " " " Plate	6	"			94-10			
	17	" " " Gibs	—							
	18									
M	19	VALVE YOKE	3	7601 SET 6		76F25	—	—	—	—
	20	" " Block	—							
M	21	" " Key	3	8006 SET 2	CHROME VANADIUM	—	—	—	—	—
P	22	VALVE STEM PACKING	1LB	VULCABESTON C.C. PACKING FOR SUPERHEATED STEAM			2¼ x 1⅜			
	23	Packing Rings								
	24	" Spring Washer								
	25	" Swab Cup								
	26	" Vibrating Cup								
	27	" Follower								
P	28	" Stuffing Box	3	652A5116		—	65-463	—	—	—
P	29	" " " Gland	3	"		—	65-464	—	—	—
	30	" Spring	—							
P	31	" Studs, Valve Stem	9	7738 SET 10		—	—	—	—	—
	32									
	33	GROUP 95—WHEELS AND TIRES								
P	34	Wheel	8	953R5020		—	95-344	—	—	—
P	35	Tire	8	A-9991	#115-SEC.					
	36	Hub Plate	—							
	37									
	38									
	39	GROUP 96—WHISTLE AND RIGGING								
M	40	WHISTLE	1	5" C.I. CHIME	PURCHASED	—	—	—	—	—
	41	" Bowl								
	42	" Bell								
	43	" Valve								
	44	" Gland								
	45	" Nut								
	46	" Diaphragm								
M	47	" Lever	1	962A5010		962A5010	—	—	—	—
	48	" Elbow	—							
	49	" Rigging	—							
M	50	WHISTLE Hand Lever	1	A-11149		111-F-10	—	—	—	—
	51	" " " Fulcrum	—							
	52	" Rod	—							
M	53	" Bell Crank	1	A-11149		111-F-11	—	—	—	—
	54	" Rod Thimble	—	—	STICK BRASS	—	—	—	—	—
	55	" " " Washer	—	—	" "	—	—	—	—	—
	56									
	57	GROUP 99—MISCELLANEOUS								
	58	SPEED RECORDER RIGGING								
	59									
	60									
	61									

CLASSIFICATION OF DRAWINGS
GEARED LOCOMOTIVE

Group No.	TITLE
10	Ash Pan and Oil Pan
11	Axles
12	Bell and Ringer Blow-off Cock—See 26 Blower Pipe Elbow—See 63
13	Boilers
14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
15	Bolts and Nuts, Studs, Pins and Bushings Boxes, Shay Engines—See 93
18	Brackets, Air and Steam Gauge Brackets, Shay Cylinder, Steam and Cylinder Bottom Brackets
20	Brake Equipment, Foundation, All Brake Equipment, Engine and Tender Brick Arch—See 45
21	Bumpers and Details By-pass Valve—See 34
22	Cabs
23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
26	Cocks and Valves, Cylinder and Blow-off Cocks, Globe Valves
27	Cocks and Valves, Gauge, Water and Special
28	Cock Rigging Connecting Rods—See 72 Coupler, Engine—See 37 Coupler, Tender—See 37
29	Crank Pins and Details
30	Crossheads, Arm, Pin, Key and Shoes Crossties—See 48
31	Cylinders and Barrel Bushings
32	Cylinder and Steam Chest Heads and Covers, Steam Chests and Bushings
34	Cylinder By-pass, Relief, Vacuum and Drifting Valves
35	Die Work—Flanging Dies
36	Dome—Cap, Casing and Ring
37	Draw-Gear, Engine, Coupler, Uncoupling Rigging Front Buffers, Drawbars, Safety Chains and Bars All Drawgears F and B Drawgear, Tender—See 37 Draft Pipe—See 75 Dry Pipe—See 91
39	Eccentrics, Cranks, Straps and Rods Engine Truck—See 93
42	Erecting Cards—Elevations
43	Erecting Cards—Cross Sections
44	Exhaust Pipe and Nozzles Expansion Pad, Knee and Plate—See 48 Feed Water Attachments—See 55
45	Fire Door, Fire Brick and Tubes, Smoke Consumer Fire Box Ring—See 14 Fire Extinguisher—See 64
48	Frames and Details
49	Gauges, Templates and Jigs
50	Guides, Yoke and End
51	Grate Arrangement
52	Grate Details Hand Holes—See 66
53	Hand Rail and Steps, Engine and Tender
54	Headlights and Signal Attachments, Lamps, Electric Wiring, Builders License and Number Plates
55	Injectors, Boiler Checks and Strainers Keys—See 15

Group No.	TITLE
57	Lagging and Jacket Lamps—See 54
58	Link Motion Mud Drum—See 14 Number Plates—See 54
59	Oil and Grease Cups, Lubricator and Bracket, Oil Can Holder, Flange Lubricator
60	Oil Burning Attachments—Engine Oil Burning Attachments, Tender—See 82
61	Painting, Lettering and Numbering—Photo
62	Pilot and Snow Plows
63	Pipe Fittings and Clamps, Air, Steam, Water and Lubricator Pipe Fittings
64	Piping Arrangements, Engine and Tender, Air Brake, Cooling, Oil Heater, Sprinkler and Steam Heat Piping
65	Piston and Rod, Extensions, Rod Packing
66	Plugs, Hand Holes and Washout Push Pole Pocket—See 21
68	Reverse Lever, Screw and Pneumatic Gears
69	Reverse Shaft and Reach Rod
70	Rocker and Box
71	Running Boards & Brackets, Side and Deck Sheets
72	Rods—Connecting and Stubs Safety Valves—See 78
73	Sand Box, Sanders and Rigging Side Sheet, Cab—See 71 Signal Attachments—See 54
74	Shafts—Crank, Line, Square, Crank, Counterbalance, Couplings, Brasses, Pinions, Gears, etc.
75	Smoke Box Arrangement, Front and Door, Smoke Stack and Extensions, Smoke Box Braces Smoke Consumer—See 45 Speed Recorder—See 99
76	Springs Sprinkler—See 64 Steam Chests—See 32
78	Steam Gauge, Safety Valve and Turrets Steam Heat—See 64
79	Steam Pipes and Tee Heads Steps—See 53
80	Stoker and Details, Engine and Tender
81	Superheater, Header and Details Superheater Flues—See 14
82	Tank Valves—Oil and Water, Handle, Well, Goose Neck, Strainer, Hose
85	Tender Frames
87	Tender Deck, Tool Box
88	Tender Tank—Water and Oil, Filling Hole, Tank Funnel, Coal Gate, Coal Pusher Tender Truck—Shay Engines—See 93
91	Throttle and Dry Pipe—Lever, Supports, Sleeves Tires—See 95 Tool Boxes, Engine—See 23 Tool Boxes, Tender—See 87
92	Tools
93	Trucks and Details, Shay Engine, including Boxes and Bearings Tube Setting—See 14 Turret, Safety Valve—See 78 Turret, Air—See 20
94	Valves, Distribution—Stems, Rods, Valve Rod Crosshead and Packing Valve Rod Crosshead Guide—See 94 Waist Sheets—See 48
95	Wheels and Tires—Driving Engine, Truck, Trailing, Tender Wheels
96	Whistle and Rigging
97	Preliminary Designs and Propositions
98	Clearance and Wheel Base Diagrams
99	Miscellaneous

Material Specifications

Hew - Plan
" End Supp.
" Frame + Det.
" Ash Pan.
" Super. Arrgt.
" Run Boards.